Index of Claims

Application/Control No.

10/007,621 Examiner

Jezia Riley

Applicant(s)/Patent under Reexamination

HARDIN ET AL.

Art Unit

1637

| <b>√</b> | Rejected |
|----------|----------|
| _        | Allowed  |

| 1 | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla         | aim      | Date     |              |          |                |  |          | ]            | Claim Date |              |   |       |          |                 |   |   |          |              |  |          |          |                 |
|-------------|----------|----------|--------------|----------|----------------|--|----------|--------------|------------|--------------|---|-------|----------|-----------------|---|---|----------|--------------|--|----------|----------|-----------------|
|             | <u></u>  | و        |              |          |                |  |          |              |            |              |   |       |          |                 |   |   | Γ        |              |  |          |          | П               |
| Final       | Original | 11/12/06 |              |          |                |  |          |              |            |              |   | Final | Original |                 |   |   |          |              |  |          |          |                 |
| iĒ          | ٦        | 1        |              |          |                |  |          |              |            |              |   | ᇤ     | Oric     |                 |   |   |          |              |  |          |          |                 |
|             |          | _        |              |          |                |  | _        |              |            |              | J |       |          |                 |   |   |          |              |  |          |          |                 |
|             | 1        |          |              | L        | L              | _  | <u> </u> |              |            |              |   |       | 51       |                 |   |   |          |              |  |          |          |                 |
| $\perp$     | 2        |          |              | _        | L              |  |          |              |            | <u> </u>     |   |       | 52       |                 |   |   |          | L            |  |          |          |                 |
| <u> </u>    | 3        | <u> </u> |              | L        | L.             |  |          |              |            | L            |   |       | 53       |                 |   |   | L        | L            | <u></u>  |          | <u> </u> |                 |
|             | 4        | L.       | <u> </u>     | _        |                |  |          | L            | L          | <u> </u>     |   |       | 54       |                 |   |   |          |              |  | L        |          | Ш               |
|             | 5        |          |              |          |                |  |          |              |            | 匚            |   |       | 55       |                 |   |   | L        | <u> </u>     | L  |          | L        | Ш               |
| <u></u>     | _6       | <u> </u> | L            |          | _              |  | L.       | <u> </u>     | 匚          | <u> </u>     |   |       | 56       |                 |   |   | L        | _            |  |          |          | Ш               |
| 1           | 7        | =        | L            |          | _              | _  |          |              |            | _            |   |       | 57       |                 |   |   | L        | L            | L  |          |          | Ш               |
| 2           | 8        | =        | <u> </u>     | _        | <u> </u>       |  | <u> </u> | _            | _          | <u> </u>     |   |       | 58       |                 |   |   | _        |              | L  | _        | _        | Ш               |
| 3           | 9        | =        | ļ            |          | L              | _  | <u> </u> |              | _          | ╙            |   |       | 59       |                 |   | _ | <u> </u> |              |  | L        |          | Ш               |
| 4           | 10       | =        | $\vdash$     |          | <b> </b>       |  | _        | ļ            | <u> </u>   | <u> </u>     |   |       | 60       |                 |   | _ | _        | L            | _  | ļ        | _        | Ш               |
| <u> </u>    | 11       | _        | L            |          | L              |  |          |              | _          | <u> </u>     | . | _     | 61       |                 |   |   | _        | ╙            | ļ  | L        | L        | Ш               |
| 5           | 12       | ᆖ        | <del> </del> | -        | $\vdash$       |  | <u> </u> | ├—           | _          | $\vdash$     |   |       | 62       | $\sqcup$        | _ |   | <u> </u> | $\vdash$     | <u> </u>   | <u> </u> | -        | $\vdash \vdash$ |
| 6           | 13       | =        | $\vdash$     | ├-       | ├              | -  | <u> </u> | <u> </u>     | <u> </u>   | ├-           |   |       | 63       | -               |   | _ | ├        | ⊢            | <b> </b> -                                       | <u> </u> | -        | Ш               |
| <del></del> | 14       | -        | $\vdash$     | $\vdash$ | <del> </del>   | -  | <u> </u> | <u> </u>     | ⊢-         | <del> </del> |   |       | 64       | $\vdash \vdash$ |   | _ | $\vdash$ | $\vdash$     | <del> </del> _                                   | $\vdash$ | ⊢        | Н               |
| 7           | 15       | =        | H            | -        | ⊢              |  | _        |              | _          |              |   |       | 65       | -               |   |   | <u> </u> | <u> </u>     | <u> </u>   | ┡        | ऻ_       | Н               |
| <u> </u>    | 16       | <u> </u> |              |          | <del> </del> — |  | ┝        | <del> </del> | ├          | ⊢            |   |       | 66       |                 |   |   | _        | _            | <u> </u>   |          | -        | Н               |
|             | 17       | ⊢        | <u> </u>     | _        | ┝              | -  | <u> </u> | -            | ├—         | _            |   |       | 67       | $\Box$          | _ | _ | <u> </u> | <u> </u>     | ļ  | <u> </u> | _        | Н               |
| -           | 18       | ⊢        |              | $\vdash$ | $\vdash$       | $\vdash$   | -        | ┝            | ┝          | ┝            |   |       | 68       | $\vdash$        |   |   | ⊢        |              | ┡  | _        | _        | Н               |
| $\vdash$    | 19       | ├        |              | <u> </u> | ┝              | ├┈   |          | $\vdash$     | H          | $\vdash$     |   | _     | 69       |                 |   |   | <u> </u> | -            | ┝  | ┝        | ⊢        | Н               |
| 8           | 20       | <u> </u> |              | <u> </u> | -              | <u> </u>   | ⊢        | -            | H          | ⊢            |   |       | 70       | $\vdash$        | _ |   | -        |              | _  |          | _        | Н               |
| 9           | 22       | =        | -            | -        | ⊢              | -  | -        | -            | $\vdash$   | <u> </u>     |   |       | 71<br>72 | $\dashv$        |   |   | H        |              | ┢  | ⊢        | <b>.</b> | $\vdash$        |
| 10          | 23       | =        |              | ├─       | $\vdash$       | $\vdash$   | $\vdash$ | ┝            | ┢          | -            |   |       |          | $\dashv$        |   | _ | ├        | <del> </del> | ⊢  | H        | -        | Н               |
| 11          | 24       | =        | -            | $\vdash$ | $\vdash$       | ┝╾   | -        | ⊢            | $\vdash$   |              |   |       | 73<br>74 | $\vdash$        |   | _ | ├-       |              | H  | ⊢        |          | ⊢⊢              |
| 12          | 25       | =        |              |          | $\vdash$       | -  | -        | $\vdash$     | $\vdash$   |              |   |       |          | $\dashv$        |   |   | -        | -            | ⊢  | ⊢        | ⊢        | Н               |
| 13          | 26       | =        |              | ┝        | ┝              | $\vdash$   |          | ┝            | -          | $\vdash$     | 1 |       | 75<br>76 |                 |   |   | ⊢        | <del> </del> | ├  | ├-       |          | Н               |
| 14          | 27       | =        | -            | $\vdash$ | $\vdash$       | $\vdash$   | _        |              | -          |              |   | _     | 77       | $\dashv$        |   | _ | -        | ├-           | ⊢  | $\vdash$ |          | Н               |
| 15          | 28       | =        |              |          |                | -  |          | <del> </del> | _          | ┢            |   |       | 78       | $\dashv$        |   | - | ┝        | <del> </del> | $\vdash$   | $\vdash$ | ┢        | Н               |
| 16          | 29       | =        | _            |          | $\vdash$       | <del> </del>                                     | _        | $\vdash$     | $\vdash$   | -            | 1 |       | 79       | $\vdash$        |   |   |          | $\vdash$     | -  | -        | $\vdash$ | Н               |
| 17          | 30       | =        | _            |          | $\vdash$       | <del>                                     </del> | _        | -            | $\vdash$   | ┝            | 1 |       | 80       | $\dashv$        |   |   | -        | ┝            | ├-   | -        | ┢        | Н               |
| 18          | 31       | =        |              |          | $\vdash$       |  |          | _            | $\vdash$   | $\vdash$     | 1 |       | 81       | -               |   |   | -        |              |  | -        | $\vdash$ | Н               |
|             | 32       |          |              |          | $\vdash$       | _  |          | H            |            | ┢            | 1 |       | 82       | $\dashv$        |   |   | -        | ┢╌           | $\vdash$   | ┢        | $\vdash$ | Н               |
|             | 33       |          | -            |          |                |  |          | $\vdash$     |            | ┢┈           | 1 |       | 83       | $\vdash$        |   |   | -        | _            | <del>                                     </del> | $\vdash$ | ┢        | Н               |
|             | 34       | Г        |              |          |                |  |          | Г            |            | Т            |   |       | 84       | $\vdash$        |   |   | T        | H            |  | $\vdash$ | $\vdash$ | Н               |
| 19          | 35       | =        |              |          | ı              |  |          |              |            | Т            |   |       | 85       | $\vdash$        |   |   |          | Г            | T  | _        | T        | Н               |
| 20          | 36       | =        |              |          | Г              |  |          | Γ            |            | Г            |   |       | 86       | $\Box$          |   |   |          | Т            |  |          | Г        | П               |
| 21          | 37       | =        |              |          |                |  |          |              |            | Γ            |   |       | 87       |                 | - |   |          |              |  | $\Box$   | Г        | П               |
| 22          | 38       | =        |              |          |                |  |          | Г            |            | Г            | 1 |       | 88       | П               |   |   |          | Т            | Г  |          | T        | П               |
| 23          | 39       | =        |              |          |                |  |          |              |            |              |   |       | 89       | $\Box$          |   |   |          | Г            |  | Γ        | $\Box$   | П               |
| 24          | 40       | =        |              |          |                |  |          |              |            |              |   |       | 90       |                 |   |   |          |              |  |          |          | П               |
| 25          | 41       | =        |              |          |                |  |          |              |            |              | ] |       | 91       |                 |   |   |          |              |  |          |          |                 |
| 26          | 42       | =        |              |          |                |  |          |              |            |              | ] |       | 92       |                 |   |   |          |              |  |          |          |                 |
| 27          | 43       | =        |              |          | $\Box$         |  |          |              |            |              | ] |       | 93       |                 |   |   |          |              |  |          |          |                 |
| 28          | 44       | =        |              |          |                |  |          |              |            |              |   |       | 94       |                 |   |   |          | L            |  |          |          |                 |
| 29          | 45       | =        |              |          |                |  |          |              |            |              |   |       | 95       |                 |   |   |          |              |  |          |          |                 |
| 30          | 46       | Ξ        |              |          |                |  |          |              |            |              |   |       | 96       |                 |   |   |          |              |  |          |          |                 |
| 31          | 47       | =        |              |          |                |  |          |              |            | L            |   |       | 97       |                 |   |   |          |              |  |          |          |                 |
| <u></u>     | 48       | <u> </u> |              |          | L_             | _  |          |              |            |              |   |       | 98       |                 |   |   |          | L            |  |          |          | Ш               |
| <u></u>     | 49       | L.,      | Ш            | <u> </u> | <u> </u>       |  | Щ.       | <u> </u>     | <u> </u>   | L            |   |       | 99       |                 |   |   |          | $\Box$       |  |          |          |                 |
| L           | 50       | L_       | oxdot        |          |                |  | Щ.       | L_           | L_         | <u> </u>     |   |       | 100      | Ш               |   |   |          | L_           |  | <u> </u> |          | Ш               |

| Cla          | aim      |  |  |          | (  | Date     | Э .           |          | -  |          |
|--------------|----------|--|--|----------|--|----------|---------------|----------|--|----------|
|              |          |  |  |          |  |          | l _           |          |  |          |
| ਕ            | Original |  |  |          |  |          | 1             | 1        |  |          |
| Final        | j j      |  |  |          |  |          |               | ļ        |  |          |
| -            | ΙÕ,      |  |  |          |  |          |               | ĺ        |  |          |
| <b></b>      |          | _  | -  | -        | -  | Η.       |               | -        | _  | ┝        |
|              | 51       | _  | ├  | <u> </u> | _  |          |               | -        | -  | _        |
|              | 52<br>53 |  | <u> </u>   | <u> </u> |  | _        | _             |          |  |          |
| L            |          |  |  | _        | <u> </u>   |          |               |          |  |          |
| L            | 54       |  |  |          |  |          |               |          |  |          |
|              | 55       |  |  |          |  |          |               |          |  |          |
|              | 56       |  |  |          |  |          |               |          |  |          |
|              | 57       |  |  |          |  |          |               |          |  |          |
| _            | 58       |  | $\vdash$   |          |  |          |               |          |  |          |
| _            | 59       | -  | ┢  | ├─       | $\vdash$   |          |               |          | _  |          |
| <b>—</b>     | 60       |  | ┝  | ┢        | ┝  | $\vdash$ |               |          | -  |          |
| <del>-</del> | 60       | $\vdash$   | ⊢  | $\vdash$ | _  | -        | _             |          | $\vdash$   |          |
| -            | 61       | <u> </u>   | <u> </u>   | $\vdash$ | $\vdash$   | $\vdash$ | Ь             |          | -  | _        |
| <u> </u>     | 62       | <u> </u>   | <u> </u>   | <u> </u> | ├  | $\vdash$ | $\vdash$      |          |  |          |
| <u> </u>     | 63       | <u> </u>   | _  | <u> </u> | L  | Щ        |               |          |  |          |
|              | 64       |  | L_   | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$  |          |               |          |  |          |
|              | 65       |  |  |          |  |          |               |          |  | L        |
|              | _66      |  |  | L        |  |          |               |          |  |          |
|              | 67       |  |  |          |  |          |               |          |  |          |
|              | 68       |  |  |          | Г  |          |               |          |  |          |
|              | 69       |  |  | _        | Н  |          |               |          |  |          |
|              | 70       |  | -  | _        | ┢  |          |               | _        | $\vdash$   | -        |
|              | 71       |  | $\vdash$   | -        | Н  | -        |               |          | H  | -        |
|              | 72       | _  | -  | <u> </u> | $\vdash$   |          |               | _        | -  |          |
| <b> </b>     |          | _  | Н  | <u> </u> | -  |          | -             | _        | H  |          |
| -            | 73       |  | <u> </u>   | <u> </u> | <u> </u>   |          |               | _        | ļ  |          |
| <u> </u>     | 74       |  | L_   | <u> </u> | <u> </u>   | $\perp$  |               | _        |  |          |
| <u> </u>     | 75       |  | L  | _        | L  | _        |               |          |  |          |
| <u> </u>     | 76       |  | L  | _        |  |          |               |          |  |          |
|              | 77       |  |  |          |  |          |               |          |  |          |
|              | 78       |  |  |          |  |          |               |          |  |          |
|              | 79       |  |  |          |  |          |               |          |  |          |
|              | 80       |  |  |          |  |          |               |          |  |          |
|              | 81       | -  |  |          |  |          |               |          |  |          |
|              | 82       |  |  | -        |  | _        |               | _        | $\vdash$   |          |
|              | 83       |  | $\vdash$   | $\vdash$ |  | -        | -             | $\vdash$ | $\vdash$   | $\vdash$ |
|              | 84       |  | $\vdash$   | <u> </u> |  | $\vdash$ |               | _        | $\vdash$   | $\vdash$ |
| $\vdash$     |          | -  | -  | Ι        | -  | -        | -             |          | $\vdash$   | -        |
| -            | 85       | _  | $\vdash$   | $\vdash$ | $\vdash$   | Ь—       | $\vdash$      | _        | $\vdash$   | ⊢        |
| <u> </u>     | 86       | $\vdash$   | <b> </b>   | <u> </u> |  | <b>L</b> | <u> </u>      |          | <u> </u>   | _        |
|              | 87       |  | $\vdash$   | $\vdash$ | igspace  | <u> </u> | $\sqsubseteq$ |          | <u> </u>   | L        |
| L            | 88       |  |  | <u> </u> | $\bigsqcup$  | Ш        | Щ             |          | $oxed{oxed}$                                     | L        |
| igsquare     | 89       | $ldsymbol{ld}}}}}}}}}$ | L_   | L        | $ldsymbol{ld}}}}}}}$ |          |               |          |  |          |
|              | 90       |  | L  | L        |  |          |               |          |  |          |
|              | 91       |  |  |          |  |          |               |          |  |          |
|              | 92       |  |  |          |  |          |               | П        |  |          |
|              | 93       |  |  |          |  |          |               |          |  |          |
|              | 94       |  | Г  |          |  |          |               | _        |  | _        |
|              | 95       | _  | $\vdash$   | $\vdash$ | $\vdash$   | П        | Н             | $\vdash$ | Н  | $\vdash$ |
|              | 96       | -  | <del>                                     </del> | $\vdash$ | -  | Н        | $\vdash$      | $\vdash$ | $\vdash$   | $\vdash$ |
| $\vdash$     | 97       |  | $\vdash$   | $\vdash$ |  | $\vdash$ | -             | -        | <del>                                     </del> |          |
| $\vdash$     | 98       |  | $\vdash$   | $\vdash$ |  | -        | -             | _        | $\vdash$   | -        |
| <b> </b>     |          |  | -  | -        | $\vdash$   |          | $\vdash$      | _        | $\vdash$   | <u> </u> |
| <u> </u>     | 99       | $\vdash$   |  | $\vdash$ |  | $\vdash$ | H             | <u> </u> | ├-   | <u> </u> |
|              |          |  |  |          |  |          |               |          |  |          |

| Cla   | aim                      | Date   |   |              |          |              |  |              |          |                 |
|-------|--------------------------|--|---|--------------|----------|--------------|--|--------------|----------|-----------------|
|       |                          |  |   |              | ΓÌ       | 1            | Ť  | Г            |          | П               |
| Final | Original                 |  |   |              |          |              |  |              |          |                 |
|       | 101<br>102<br>103        |  |   |              |          |              |  |              |          | П               |
|       | 102                      |  |   |              |          |              |  | Г            |          | П               |
|       | 103                      |  |   |              |          |              |  |              |          | П               |
|       | 104                      |  |   |              |          | Г            |  |              |          | П               |
|       | 105                      |  |   |              |          |              |  |              |          | П               |
|       | 104<br>105<br>106        |  |   |              |          |              |  |              |          | П               |
|       | 107                      |  |   |              |          |              |  |              |          | П               |
|       | 108                      |  |   |              |          |              |  |              |          |                 |
|       | 109                      |  |   |              |          |              |  |              |          |                 |
|       | 110                      |  |   |              |          |              |  |              |          |                 |
|       | 111                      |  |   |              |          |              |  |              |          |                 |
|       | 112                      | L  |   |              |          |              |  |              |          |                 |
|       | 113                      |  |   |              |          |              |  |              |          |                 |
|       | 114<br>115               |  |   |              | oxdot    |              | L.   |              | L        | Ш               |
|       | 115                      |  | $ldsymbol{ld}}}}}}$ | _            |          |              |  |              |          |                 |
|       | 116<br>117               | _  | L   | $\Box$       | L.       | _            | L  | L            |          | Ш               |
|       | 117                      | _  |   |              |          |              |  | _            |          | Ш               |
|       | 118                      |  |   |              | L.       | _            | L.   | L            |          | Ш               |
|       | 119                      | $oxed{oxed}$                                     |   |              |          |              |  |              |          | Ш               |
|       | 120                      |  |   |              | _        | _            | _  |              |          | Ш               |
|       | 121<br>122               |  |   |              |          | L            |  | L            |          | Ш               |
|       | 122                      |  |   |              |          |              |  | _            |          | Ш               |
|       | 123                      | L  |   |              |          | _            |  | _            |          | Ш               |
|       | 124<br>125<br>126        |  |   |              |          |              | <u> </u>   |              |          | Щ               |
|       | 125                      |  |   | $oxed{oxed}$ |          | _            | _  | _            |          | Ш               |
|       | 126                      |  |   | <u> </u>     |          |              | _  |              | _        |                 |
|       | 127<br>128<br>129<br>130 |  |   | _            |          |              | <u>Ļ</u> .                                       | _            |          |                 |
|       | 128                      |  |   | L.           |          |              |  |              |          | Ш               |
|       | 129                      |  |   | _            |          |              | _  | _            |          | Ш               |
|       | 130                      |  | _   | <u> </u>     | _        | _            | <u> </u>   | <u> </u>     |          | Щ               |
|       | 131                      | L  |   |              | <u> </u> |              | <u> </u>   | <u> </u>     | _        | Ш               |
|       | 132<br>133               |  |   | <u> </u>     |          | _            | _  | <u> </u>     |          | Н               |
|       | 133                      | $\vdash$   |   | <u> </u>     |          | <u> </u>     | <u> </u>   | $\vdash$     | ⊢        | Н               |
|       | 134                      | -  |   | <u> </u>     | ⊢        | <u> </u>     | -  | -            | ├-       | Н               |
|       | 135<br>136               | $\vdash$   |   | <u> </u>     | H        | <del> </del> | -  | -            | ├        | Н               |
|       | 137                      | -  |   |              | H        | ├-           | <del> </del>                                     |              | _        | Н               |
|       | 138                      | $\vdash$   |   | $\vdash$     | $\vdash$ | ┝            | $\vdash$   | H            | <u> </u> | Н               |
|       | 139                      | -  | _   | $\vdash$     | $\vdash$ | -            | _  | $\vdash$     | -        | $\vdash$        |
|       | 140                      |  | _   | -            | -        | ├─           | ┢  | -            |          | -               |
|       | 141                      | $\vdash$   |   | $\vdash$     | H        | ┢            | ┝  | -            | ⊢        | Н               |
|       | 142                      | $\vdash$   | $\vdash$  | $\vdash$     | $\vdash$ | -            | -  | $\vdash$     | $\vdash$ | $\vdash$        |
|       | 143                      | $\vdash$   | Н   | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash \vdash$ |
|       | 144                      | $\vdash$   | $\vdash$  | $\vdash$     | $\vdash$ | -            | <del>                                     </del> | <del> </del> | $\vdash$ | $\vdash$        |
|       | 145                      | $\vdash$   | $\vdash$  | $\vdash$     | $\vdash$ | $\vdash$     | <del> </del>                                     | H            | H        | H               |
|       | 146                      | $\vdash$   | -   | -            | $\vdash$ | 1            | H  |              | $\vdash$ | H               |
|       | 147                      | $\vdash$   |   | $\vdash$     | $\vdash$ | $\vdash$     | <del>                                     </del> | $\vdash$     | $\vdash$ | $\vdash$        |
|       | 148                      | <del>                                     </del> | -   |              | $\vdash$ | _            | ┢  | Н            |          | $\vdash$        |
| _     | 149                      | $\vdash$   | $\vdash$  | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$     | _        | H               |
| _     | 150                      | ┢  | <del> </del>  | $\vdash$     | ┢═       | $\vdash$     | -  | $\vdash$     | $\vdash$ | Н               |
|       | 130                      | L  |   |              |          |              |  |              |          | I J             |